Abstract of the Disclosure

A method is disclosed wherewith a person skilled in the art of statistical quality control may use to determine whether a process or a product is statically equivalent to another of known quality, or conforms to a desired known quality. The method may also be used to determine whether multiplicities of products or processes are statistically equivalent to one another. The method makes the determination based calculating an equivalency index that is associated with the measured parametric data, the population ratio of data points within a set of parametric limits.